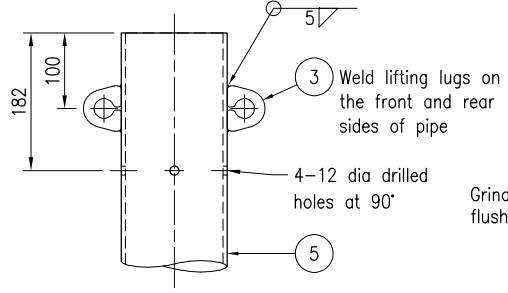
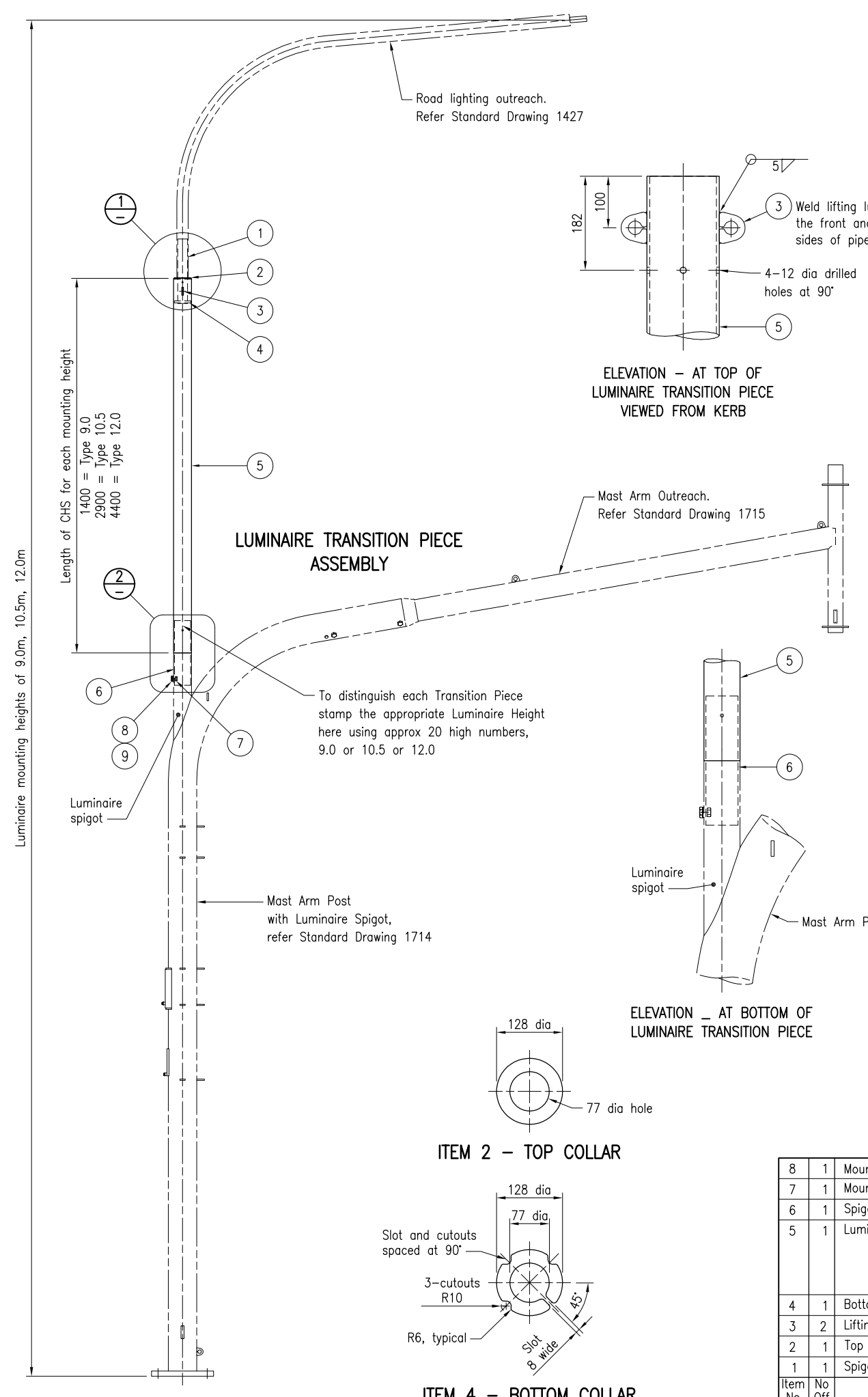
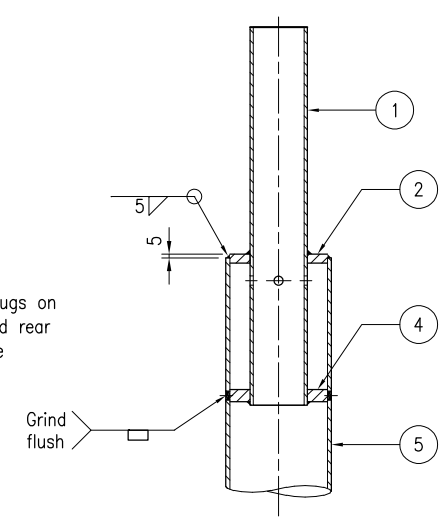


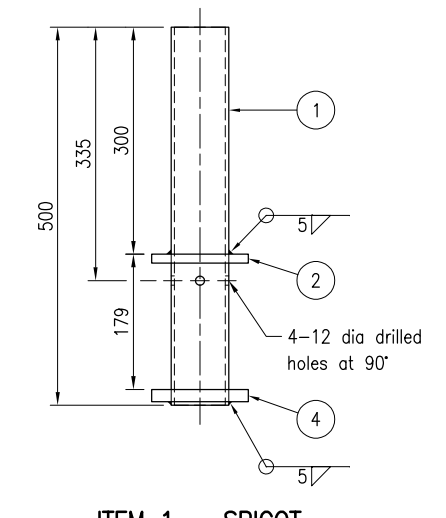
The purpose of This Standard Drawing is to provide typical standard details.
 The mast arm post details in this drawing are designed to AS 2979 (1998).
 At this time, this drawing does not detail mast arm post to AS 2339 (2017). This drawing shall be updated after the details are reviewed for compliance to AS 2339 (2017).



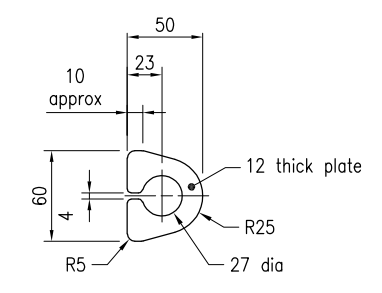
ELEVATION - AT TOP OF LUMINAIRE TRANSITION PIECE VIEWED FROM KERB



PART SECTION - ASSEMBLY DETAILS
 DETAIL 1 - DETAILS FOR SPIGOT INTO LUMINAIRE OUTREACH

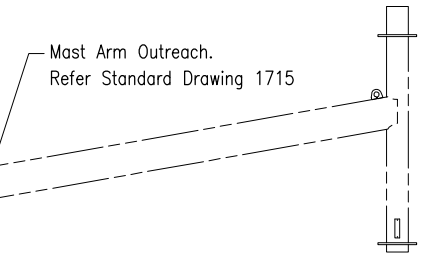


ITEM 1 - SPIGOT FOR LUMINAIRE OUTREACH

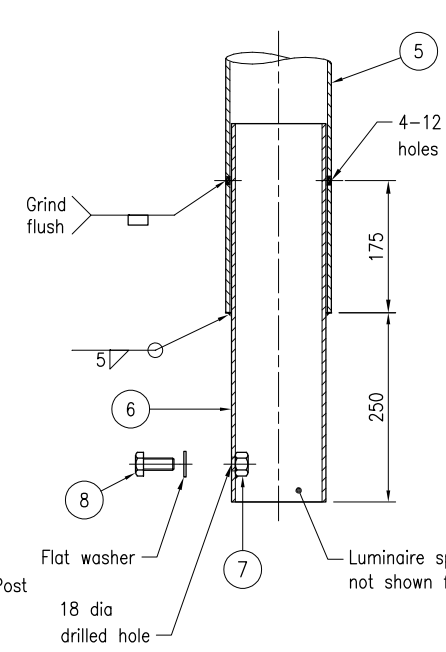


ITEM 3 - LIFTING LUG

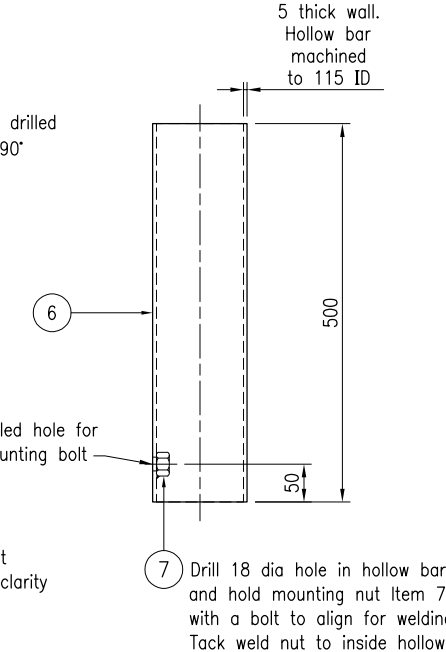
LUMINAIRE TRANSITION PIECE ASSEMBLY



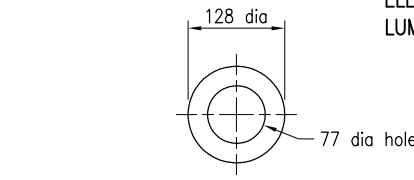
ELEVATION - AT BOTTOM OF LUMINAIRE TRANSITION PIECE



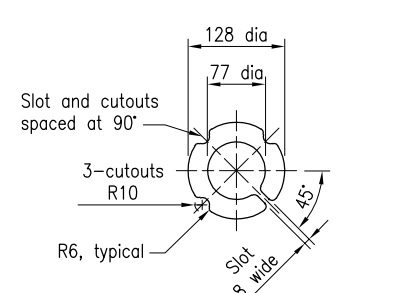
PART SECTION - ASSEMBLY DETAILS
 DETAIL 2 - DETAILS FOR SPIGOT PIPE INTO MAST ARM POST



ITEM 6 - SPIGOT PIPE



ITEM 2 - TOP COLLAR



ITEM 4 - BOTTOM COLLAR

NOTES:

- SCOPE: This Standard Drawing provides typical assembly and fabrication details of the circular combination mast arm luminaire transition piece, in accordance with MRTS97. This drawing supersedes TMR fabrication drawing 249769.
- DESIGN CRITERIA: Type '3C' Mast Arm shall conform to AS 2979. Total effective area of lantern assembly shall be 1.75m², i.e. 5-3 aspect 300 dia Traffic Signal Lanterns.
- STEELWORK shall be fabricated to the requirements of MRTS78 and in accordance with AS 4100. Steel grades are as noted in Material List. CHS to AS/NZS 1163. Steel plate to AS/NZS 3678. Flat bar to AS/NZS 3679.1. Hollow bar to EN10294-1. Bolts class 4.6 to AS 1111.1, nuts class 5 to AS 1112.1, and washers class 5 to AS 1237.1, and hot dip galvanised to AS 1214. All holes shall be drilled or laser cut, ground smooth around edges. All welds shall be completed prior to hot dip galvanising. Members shall be branded with suitable item number after fabrication. Prior to galvanising all weld splatter and welding slag is to be removed. All other steelwork shall be hot dip galvanised to AS/NZS 4680.
- WELDING symbols conform to AS 1101.3. All welding to AS/NZS 1554.1 or AS/NZS 1554.4. All welds except location tack welds to be SP category. Welding consumables to be controlled hydrogen type: G493 to AS/NZS ISO 14341-B or T493 to AS/NZS ISO 17632-B.
- DIMENSIONS are in millimetres.

REFERENCED DOCUMENTS:

- Departmental Standard Standard Drawings:
 1713 Traffic Signals/Road Lighting - Circular Mast Arm Type U1
 1714 Traffic Signals/Road Lighting - Circular Combination Mast Arm Type U2
 1427 Traffic Signals/Road Lighting - Mast Arm U Series Installation Details
- Departmental Specifications:
 MRTS78 Fabrication of Structural Steelwork
 MRTS97 Mounting Structures for Roadside Equipment

Item No	No Off	ITEM DESCRIPTION	MATERIAL DESCRIPTION	LENGTH	GRADE
8	1	Mounting bolt and flat washer	M16 hex galvanised bolt	40	4.6
7	1	Mounting nut	M16 hex nut	-	5
6	1	Spigot Pipe into Mast Arm Post	125/110 hollow bar	500	20MnV6
5	1	Luminaire Transition Piece Type 9.0 1400 long Type 10.5 2900 long Type 12.0 4400 long	125NB 139.7 x 5.4 CHS	As shown	C250LO
4	1	Bottom collar	16 thick plate	128 dia	250
3	2	Lifting lug	12 thick plate	50 x 60	250
2	1	Top collar	12 thick plate	128 dia	250
1	1	Spigot for Luminaire Outreach	76.1 x 4.5 CHS	500	C250LO

MATERIAL LIST

Department of Transport and Main Roads			
TRAFFIC SIGNALS/ROAD LIGHTING			
CIRCULAR COMBINATION MAST ARM LUMINAIRE TRANSITION PIECE - ASSEMBLY AND DETAILS		Standard Drawing No 1716 Date 3/2020	A3 Not to Scale A